ACCESSION NR: AP4018373

data into the tape. The instrument, whose functional diagram is shown in Enclosure 1, permits 4-5 times quicker data processing. The instrument has been in actual operation since March, 1962; its output agrees with the manual-processing output to within 3%. "The authors wish to thank I. V. Chuvilo for a few valuable hints and comments made by him during the development of this instrument." Orig. art. has: 10 figures.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Nuclear Research Institute)

SUBMITTED: 13Mar63

DATE ACQ: 18Mar64

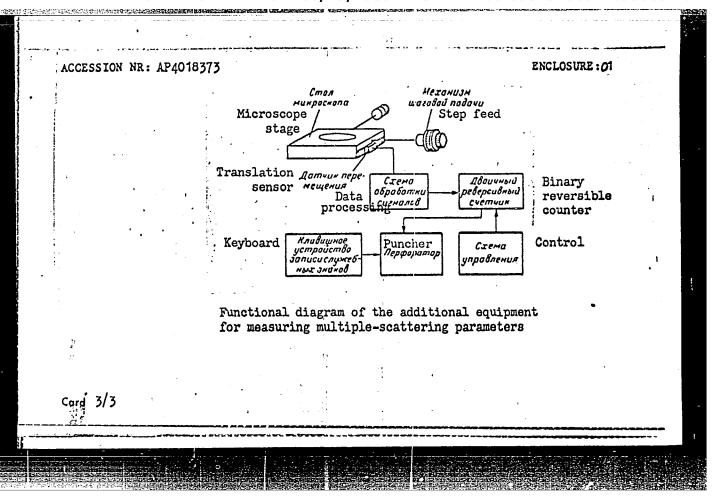
ENCL: 01

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NO REF SOV: 002

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Card 2/3



KARZHAVIN, Yu.A.; KULIKOV, Yu.V.; MALASHKEVICH, N.I.; RAKITSKIY, D.V.; RAMZHIN, V.N.

High-power source of stabilized voltage of ±250kv. Prib. i tekh. eksp. 10 no.1:120-123 Ja-F '65. (MIRA 18:7)

1. Ob"yedinennyy institut yadernykh issledovaniy.

SOV/51-6-3-14/28

AUTHORS: Levshin, V.L., Gutan, V.B. and Karzhavina, E.N.

TITLE: On the Possibility of Recombination Processes in Luminescence of Tungstates and Uranyl Compounds (O vozmozhnosti rekombinatsionnykh protsessov svecheniya v vol'framatakh i uranilovykh soyedineniyakh)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 3, pp 372-376, (USSR)

ABSTRACT: This paper was presented at the Seventh Conference on Luminescence in July 1958. The authors describe their studies of luminescence of uranyl silicate (U02Si03) and calcium tungstate (CaWO4). The apparatus used was developed by a group of engineers working at the Physics Institute imeni P.N. Lebedev at the Ac. Sc. USSR, who were directed by A.G. Zavrazhin and amongst whom was E.N. Karzhavina. This apparatus made it possible to study luminescence of phosphors excited with electrons or with light between - 185 and +300°C. Both substances were free from impurities. CaWO4 was prepared by Yu.S. Leonov Card 1/3 of FIAN. The phosphors were irradiated with a 10-7 A/cm²,

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720930002-8

On the Possibility of Recombination Processes in Luminescence of Tungstates and Uranyl Compounds

14 kV beam of electrons for 30 minutes at - 185°C. When cathodoluminescence died away completely the phosphors were heated at the rate of 10 deg/min. The resultant thermal de-excitation (thermoluminescence) curves are shown Electron-irradiated, in Figs.1 ($U0_2Si0_3$) and 3 ($CaW0_4$). thermally de-excited and subsequently photoexcited at 366 and 312 mm, calcium tungstate also exhibited thermoluminescence (Fig.4). Photoexcitation of CaWO4, which was not previously electron-irradiated, and photoexcitation of U02Si03, whether electron-irradiated or not, did not produce any thermoluminescence. The intensities of thermoluminescence were of the order of several per cent compared with cathodoluminescence. Cathodoluminescence of both substances decayed hyperbolically at - 185°C (Figs. 5, 6). observed thermoluminescence and the hyperbolic decay of cathodoluminescence are ascribed to disturbance of the crystal lattice by the electron beam with resultant formation of centres at which electrons can be localised. Card 2/3 Cathodoluminescence is due to recombination of all the

SOV/51-6-3-14/28

On the Possibility of Recombination Processes in Luminescence of Tungstates and Uranyl Compounds

trapped electrons liberated from shallow levels, and thermoluminescence is due to the electrons freed from deeper levels. There are 6 figures and 4 references, of which 2 are Soviet, 1 German and 1 English.

SUBMITTED: March 27, 1958

Card 3/3

s/0056/63/045/006/1743/1753

AUTHORS: Wang, Nai-yen; Vizi, I.; Yefimov, V. N.; Karzhavina, E. N.; Kim, Khi San; Popov, A. B.; Pikel'ner, L. B.; Pshitula, M. I.; Stadnikov, T.; Ch'eng, Ling-yen; Sharapov, E. I.; Shelontsev, I. I.; Shirikova, N. Yu.; Yazvitskiy, Yu. S.

TITLE: Investigation of the neutron resonances of Rh-103

SOURCE: Zhurnal eksper. i teoret. fiziki, v. 45, no. 6, 1963, 1743-1753

TOPIC TAGS: rhenium 103, neutron resonance, slow neutron spectrometry, p neutrons, s neutrons, force functions, Porter Thomas law, transmission measurement, scattering measurement, capture measurement

ABSTRACT: This is a report of the first results obtained with the slow neutron spectrometer developed at the Ob'yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

Card 1/43

ACCESSION NR: AP4009090

ACCESSION NR: AP4009090

(described by Blokhin et al, in Atomnaya energiya, v. 10, 437, 1961) for a systematic investigation of neutron resonances and for the accumulation of a complete set of parameters for each neutron resonance study. The development was stimulated by the fact that as a rule the number of resonances known for each individual element is statistically limited, and the acquisition of new data on the resonances and their spins is of timely interest. Transmission, scattering and capture measurements were made with this spectrometer for several samples of $\mathrm{Rh}^{103},$ which in addition to being a convenient element for such investigations also lies in the region where resonances induced by p-neutrons might be discovered. The measurements were made at resolutions of 0.04, 0.08, and 0.05 μsec/m, and the parameters of 17 resonances and the spins of 8 levels were determined. The observed deviation from the Porter-Thomas law with a single degree of freedom is attributed to the fact that some 4 or 5 resonances are due to neutrons with unity orbital angular momenta. Force functions for neutrons with zero and unity momenta were esti-

Card 2/43

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ACCESSION NR: AP4009090

mated under these assumptions at $S_0 = (0.46 \pm 0.18) \times 10^{-4}$ and $S_1 = (1.8 \pm 1.4) \times 10^{-4}$. "In conclusion, we thank I. M. Frank and F. L. Shapiro for interest in the work and for useful discussions." Orig. art. has: 7 figures, 9 formulas, and 2 tables.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 01Jun63

DATE ACQ: 02Feb64

ENCL: 01

SUB CODE: PH

NO REF SOV: 007

OTHER: 006

Card 3/4 3

ACCESSION NR: AP4042367

s/0056/64/047/001/0043/0051

AUTHORS: Wang, Nai-yen; Iliyesku, N.; Karzhavina, E. N.; Kim, Khi San, Popov, A. B.; Pikel'ner, L. B. Stadnikov, T.; Sharapov, E. I.; Yazvitskiy, Yu. S.

TITLE: Neutron resonances in praseodymium and terbium

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 1, 1964, 43-51

TQPIC TAGS: praseodymium, terbium, resonance scattering, neutron scattering, neutron spectrum, Fermi statistical theory

ABSTRACT: This is a continuation of earlier neutron-resonance measurements made on radium and bromine (ZhETF v. 45, 1743, 1963 and v. 45, 1294, 1963). The Tb and Pr resonance parameters and the spins of many levels were determined by measuring the transmission, the radiative capture, and the neutron scattering. Transmission was measured with the apparatus of I. Vizi et al. (Nuclear electronics,

1/5

ACCESSION NR: AP4042367

v. 1, Vienna, 1962, page 27). Radiative capture was studied by means of the detector described by L. B. Pikel'ner et al. (PTE, no. 2, 51, 1963). A total of 22 levels at energies up to 100 eV and 14 levels at energies up to 1000 eV (of which four were observed for the first time) were analyzed for Tb and Pr. respectively. The new measurements were obtained using a neutron time-of-flight spectrometer and the OIYaI pulsed fast reactor of the Joint Institute for Nuclear Research. The average value of the radiation widths of the Tb and Pr levels were found to be 86 MeV for both elements. neutron width distribuțion for all substances do not agree very well with the Porter-Thomas distribution. Measurements with better resolution and in a much wider energy range are necessary to refine the neutron width distribution. "We thank F. L. Shapiro for interest and valuable discussions, and I. I. Shelontsev and N. Yu. Shirikova for the electronic computer calculations." Orig. art. has: 2 figures and 2 tables.

2/5

ACCESSION NR: AP4042367

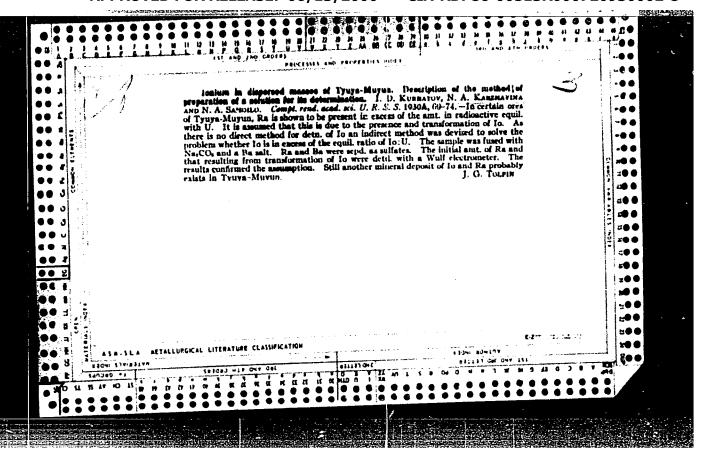
ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

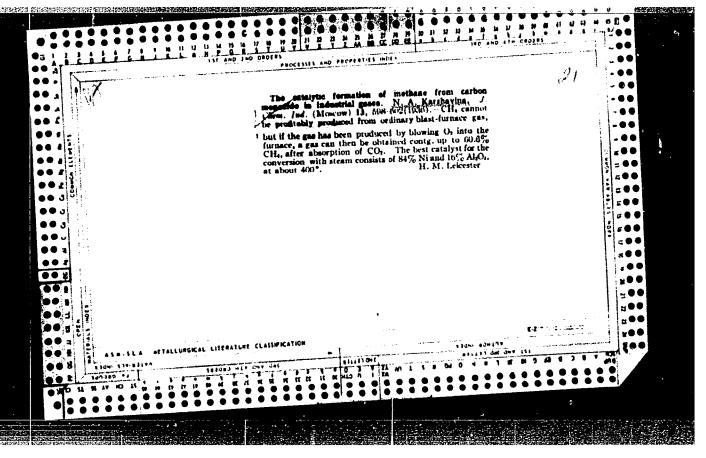
SUBMITTED: 28Jan64

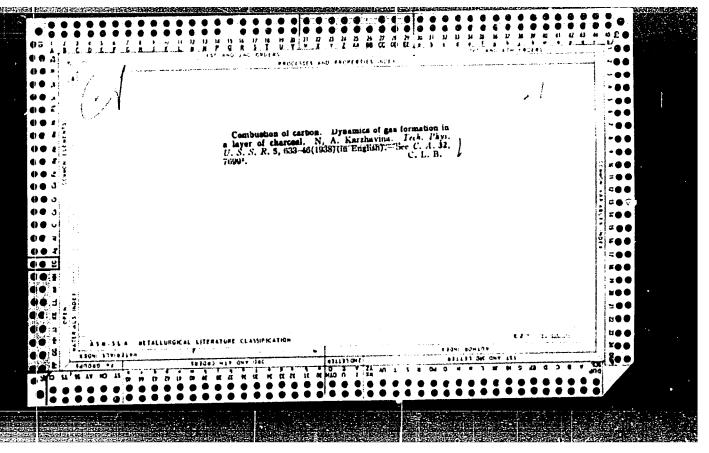
ENCL: 02

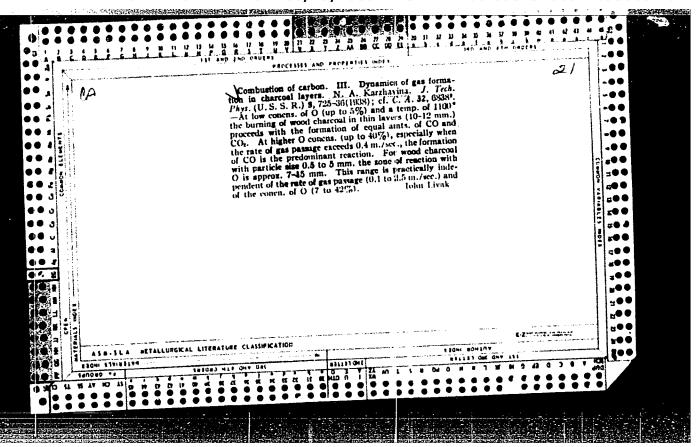
SUB CODE: NP NR REF SOV: 007 OTHER: 009

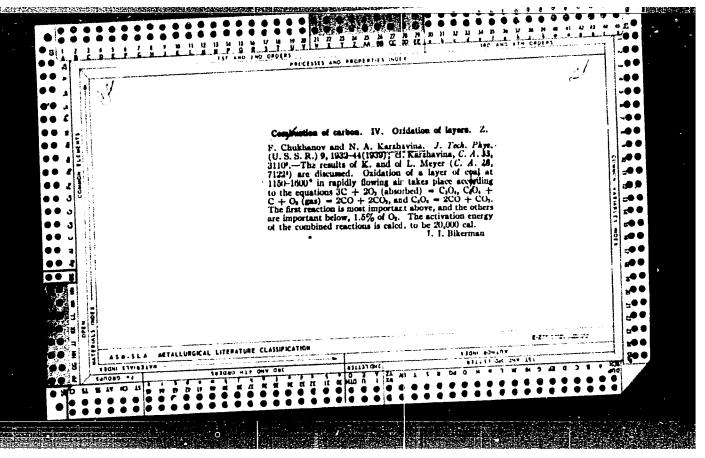
ACCESSION NR:			,		ENCLOSURE:	01 '
•	Tb	resonance p	arameters			
•	E., eV	gΓ _n , meV	Γ _Υ , me\'	s	2gr _n ;	
	$\begin{array}{c} 8,340 \pm 0,005 \\ 4,98 \pm 0,01 \\ 11,05 \pm 0,02 \\ 14,38 \pm 0,03 \\ 24,26 \pm 0,05 \\ 24,6 \pm 0,07 \\ 27,6 \pm 0,08 \\ 33,0 \pm 0,11 \\ 40,7 \pm 0,15 \\ 43,7 \pm 0,17 \\ 46,1 \pm 0,18 \\ 50,3 \pm 0,20 \\ 51,6 \pm 0,20 \\ 54,2 \pm 0,25 \\ 58,7 \pm 0,25 \\ 58,7 \pm 0,25 \\ 65,5 \pm 0,30 \\ 66,8 \pm 0,4 \\ 78,0 \pm 0,4 \\ 78,0 \pm 0,4 \\ 88,8 \pm 0,5 \\ 87,5 \pm 0,5 \\ 87,5 \pm 0,5 \\ \end{array}$	0,21 ± 0,02 0,032 ± 0,003 5,0 ± 0,2 0,084 ± 0,008 2,7 ± 0,2 0,47 ± 0,05 1,4 ± 0,2 0,29 ± 0,05 2,5 ± 0,2 6,7 ± 0,3 0,54 ± 0,07 0,30 ± 0,05 0,68 ± 0,07 0,85 ± 0,15 5,0 ± 0,5 1,2 ± 0,1 8,5 ± 0,6	80 ± 10 87 ± 6 76 ± 11 81 ± 15 76 ± 16 89 ± 11 92 ± 20 87 ± 16	2° 1° 2 1 2 2 1 2 2	0,23 0,020 3,02 0,044 0,28 0,12 0,18 0,48 0,091 0,765 1,07 0,37 0,15 0,081 0,176 0,22 1,25 0,29 1,98	
Card 4/5	88,8 ± 0,5 90,6 ± 0,5 97,5 ± 0,5	1,8 ±0,2 3,8 ±0,3 14 ±1	103 ± 14	1	0,38 0.8 2,7	
	'*Spi		ermined ela	sewhere		

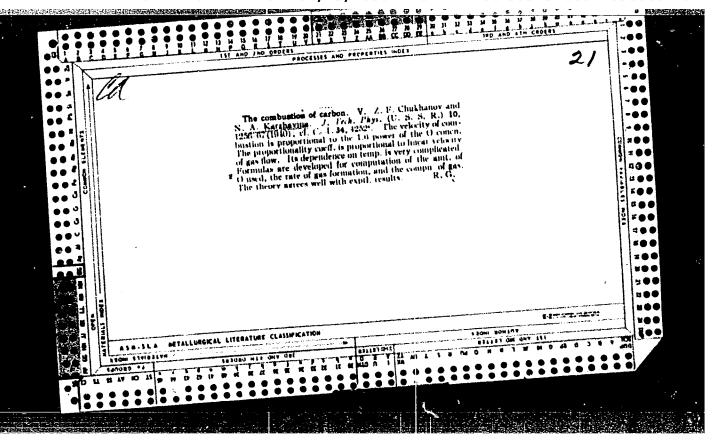


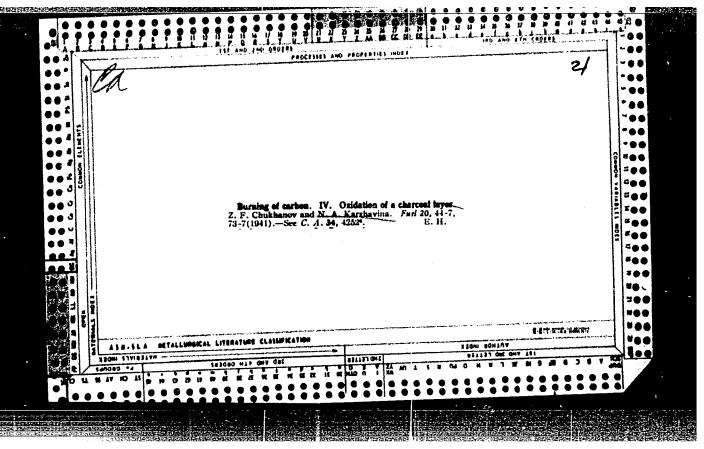


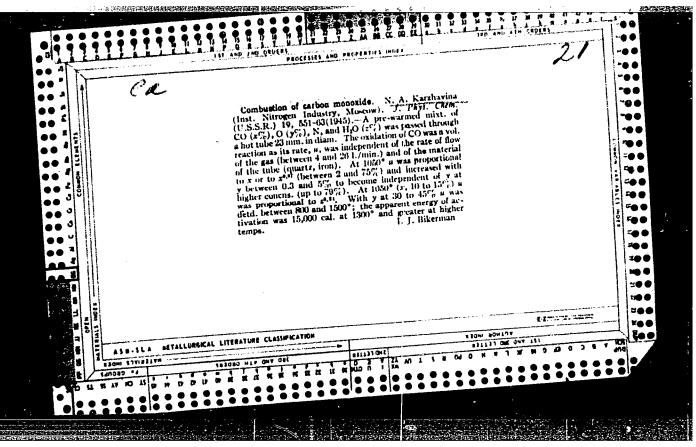


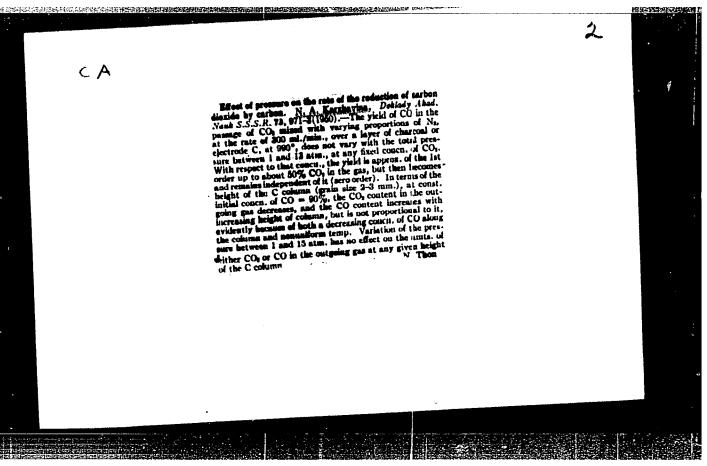


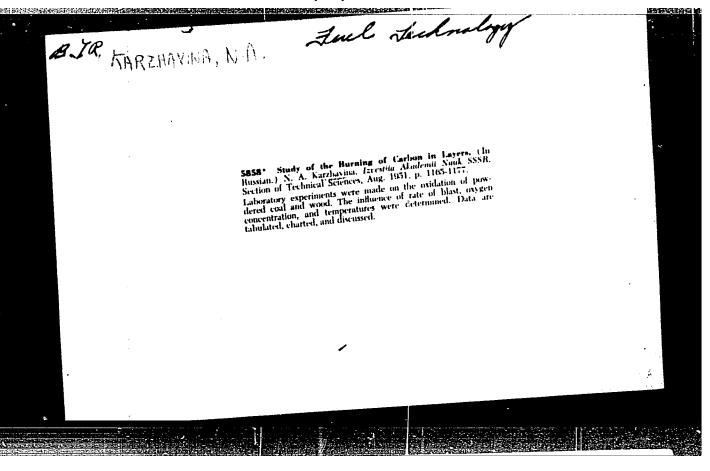












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KARZHAVINA, N.A.

24-9-11/33

AUTHORS: Karzhavina, N.A., Keneman, F. Ye and Chukhanov, Z.F. (Moscow)

TITLE: High speed thermal decomposition of fuel by means of a gaseous heat carrier. (Vysokoskorostnoye termicheskoye

razlozheniye topliva gazovym teplonositelem).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1957, No.9, pp. 82-89 (USSR)

ABSTRACT: In earlier experiments by one of the authors, Chukhanov, Z.F. and his team (Refs. 1 and 2), it was found that, in the case of high speed heating, separation of the main quantity of volatiles is delayed compared to the heating time of the fuel. Therefore, heating of pulverised fine grain fuel by means of a gaseous heat carrier to a certain temperature within fractions of a second permits materialising a twostage process of thermal decomposition of the fuel; the first stage being very rapid heating and the second stage consisting of liberation of the volatile substances inside apparatus specially designed for this purpose. volatiles are separated out in a pure form without being diluted by the gaseous heat carrier so that a gas of a maximum calorific value is obtained and capture of liquid In this paper the results are products is facilitated. described of further experiments wherein the heating was effected inside a tube with the fuel particles going

Card 1/3

24-9-11/33

High speed thermal decomposition of fuel by means of a gaseous neat carrier.

> downwards and the gaseous heat carrier (super-heated steam) being driven upwards (in counter current). Steam is preferable to flue gases since after condensation it permits measurement of the gas yield in the first stage of the process and also up to 600°C it represents an inert heat carrier. The results are given of experiments of heat and thermal decomposition of Moscow region coal and Baltic shale in an experimental set-up with an output of up to 150 kg/hr of fuel of 1 to 2 mm and 2 to 3 mm fractions. A sketch of the experimental set-up is shown in Fig.1. The heating retort consists of a vertical tube of 0.2 m dia. and 12 m long. The heated fuel was fed into a chamber by means of a worm arrangement and the products of thermal decomposition were drawn off through a side opening and fed into a cooler, ventilator and, finally, into a gas For maintaining a constant fuel temperature in the thermal decomposition chamber, it was fitted with an electric winding which enabled compensation of the heat loss into the ambience. The fuel was held in the decomposition chamber for about two hours.

Card 2/3 comprised inadequate hermeticity of the chamber and the

SOV/24-58-8-31/37

AUTHORS: Karzhavina, N. A. and Keneman, F. Ye. (Moscow)

TITLE: Investigation of the Thermal Decomposition of Pulverised

Peat Whilst Heating it at High Speeds (Issledovaniye termicheskogo razlozheniya pylevidnogo torfa v protsesse

yego bystrogo nagreva)

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PERICDICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 8, pp 150-153 (USSR)

ABSTRACT: The process of thermal decomposition of pulverised peat whilst heating it at great speed by means of a gaseous heat carrier was studied on a laboratory scale by

V. V. Kalyuzhnyy (ENIN, AN SSSR) and V. A. Shkele (Chemistry Institute, Latvian SSR). The main aim of these authors was to study the high speed "bertination" (berginization?) of fuel and the elimination from it

(berginization?) of fuel and the elimination from it of ballast products during heating for a fraction of a second to several hundreds C by means of a gaseous heat carrier. In this paper the results are described of experimental investigation of the thermal decomposition, within a wide range of temperatures of pulverised milling peat during its heating in a stream of super-heated

Card 1/4 steam. It is shown that for a heating speed of 1000°C/sec

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Investigation of the Thermal Decomposition of Pulverised Peat Whilst Heating it at High Speeds

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and a total and decomposition time of about 0.6 sec and a heating temperature range 200-400°C, a gas is generated which contains 80% CO2 and 20% CO, i.e. a "high speed bertination gas". Thereby, the degree of decomposition of the peat substance is small; the total separation of pitch and pyrogenetic water at 400°C is about 20% and the gas yield about 1.5 wt % of the initial weight of the dry peat. At temperatures above 400°C the peat decomposition is more intensive, the calorific value of the generated gas increases rapidly and the yield of pitch also increases. Therefore, for the here mentioned heating and decomposition time, the thermal decomposition should be effected in the temperature range 400-420°C; the calorific value of the thus processed peat differs little from that of the peat in the initial state. In the here described investigations the peat was heated in a flow of super-heated steam for a fraction of a second, then the heated peat was rapidly separated from the steam heat carrier in a cyclon and cooled in flowing water. Thus, Card 2/4 the volatile products could separate only during the time

SOV/24-58-8-31/37

Investigation of the Thermal Decomposition of Pulverised Peat Whilst Heating it at High Speeds

of heating and movement of the peat in the retort and in the cyclon. The processing capacity of the test set-up was 20-30 kg of peat per hour. A schematic diagram of the test installation, which is described in the paper in some detail, is shown in Fig.1. The results a graphed in Figs.2-7. Study of the yield and the composition of the gas leads to the preliminary conclusion that it is advisable to apply such high speed "bertination" for the purpose of improving the peat so as to obtain more valuable products during the subsequent thermal decomposition. The results of the calculations of the relative quantities of separated-out volatile substances and the changes in the quantity of the chemical elements in the peat which was heated during the experiments are entered in Figs. 4 and 5, the latter showing the chemical composition of the peat in experiments with various composition temperatures. The graph Fig. 5 shows the content heating temperatures. of chemical elements of peat in experiments with various heating temperatures. For heating temperatures not Card 3/4 exceeding 300°C the contents of hydrogen and carbon are

/SOV/24-58-8-31/37

Investigation of the Thermal Decomposition of Pulverised Peat Whilst Heating it at High Speeds

20 and 10% respectively; at 500°C over 50% of the hydrogen and 30% of the carbon goes over from the peat into the decomposition products. The calorific values of the heated peat, determined in a bomb, are entered in a table, p.153; the calorific value is near to that of the peat in the initial state, i.e. the peat does not get refined in the retort.

There are 7 figures, 1 table and 1 Soviet reference.

SUBMITTED: December 6, 1957

1. Peat--Decomposition 2. Peat--Heating 3. Peat--Temperature factors 4. Peat--Test methods

Card 4/4

SOV/24-58-11-31/42

AUTHORS: Karzhavina, N. A. and Keneman, F. Ye. (Moscow)

TITLE: Investigation of the Thermal Decomposition of Pulverised Shale in the Process of Rapid Heating (Issledovaniye termicheskogo razlozheniya pylevidnogo slantsa v protsesseyego bystrogo nagreva)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 11, pp 118-120 (USSR)

ABSTRACT: The experiments were carried out on a test set-up used in earlier work (Ref 1) for studying the thermal decomposition of pulverised peat; the experimental technique was the same as that used for milling peat. On the basis of preliminary experiments relating to On the basis of preliminary experiments relating by decomposition of Baltic shale during rapid heating by means of a gaseous heat carrier, it can be concluded that the speed of decomposition at temperatures above 550 to 600°C is very high. At 600°C up to 90% of the volatile substances are separated out during a time interval totalling 0.6 sec for the heating and the decomposition. By using a combination of gaseous and solid heat carriers, By using a combination of gaseous and solid heat carriers, the possible to achieve an extremely high intensity of the process thermal decomposition, exceeding the intensity of the process

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SOV/24-58-11-31/42

Investigation of the Thermal Decomposition of Pulverised Shale in the Process of Rapid Heating

when using only a solid heat carrier. The experiments have also shown that high speed heating with a gaseous heat carrier, as suggested by Z. F. Chukhanov, cannot be effected in the temperature range above 420°C if it is desired to obtain a rapid separation of the heated fuel from the gaseous heat carrier and subsequently to obtain products of thermal decomposition in separate apparatus. However, for the given heating and decomposition time it is possible to utilise this principle as the first stage of heating of pulverised shale to temperatures below 420°C. Losses in the heating retort were very small, a few wt.% of the initial quantity of the shale. The progress of separation of volatile substances and of shale decomposition gas is graphed in Fig.1; at temperatures above 500°C an appreciable separation of not only gas but also of tar was observed. The average composition of the gas, which separates/during heating of the shale, as a function of the temperature is graphed in Fig. 2. It can be seen that, in contrast to gas generated from peat, even Card2/4 at the initial temperature of gas separation (400°), the

SOV/24-58-11-31/42 Investigation of the Thermal Decomposition of Pulverised Shale in the Process of Rapid Heating

composition of the obtained gas differs greatly from that which can be considered as being "bertination" (berginization) gas; it is rich and has a calorific value of at least 2000 kcal/m². Data on the yield and the characteristic of the gas and heated shale (semi-coke) are entered in a table, p 119. On increasing the temperature the content in the gas of unsaturated hydrocarbons On increasing the temperaincreases and the content of CO decreases. In Fig. 3 the change is graphed of the relative quantities of the chemical elements of shale which is heated in the retort, In Fig.4 the calculated values are graphed of the relative content of potential energy in the product of thermal decomposition of the shale. The obtained results are in good agreement with data published by V. V. Kalyuzhnyy (Ref 2); the total time required for heating and decomposition of the heated shale is about 0.5 to 0.6 sec and this value is in good agreement with the calculated value for pulverised shale in the retort, which is evaluated at 0.6 to 0.8 sec.

Card3/4

KAZAKOV, Ye.I.; MALASHENKO, L.P.; TYAZHELOVA, A.A.; PARFENOV, I.A.; KARZHAVINA, N.A.

Effect of high rate heating and of the process temperature on the composition of coal tar in the thermal decomposition of Moscow Basin coal. Energotekh.ispol.topl. no.1:131-138 60. (MIRA13:10)

(Coal-tar products)

ANDREYEV, G.S., kand. tekhn. nauk; BOKUCHAVA, G.V., kand. tekhn. nauk, dots.; BRAKHMAN, L.A., inzh.; BUDNÍKOVA, A.V., inzh.; GORDON, M.B., kand. tekhn. nauk, dots.; ZHAVORONKOV, V.N., inzh.; KARZHAVINA, T.V., kand. tekhn. nauk; KOROTKOVA, V.G., inzh.; KORCHAK, S.N., inzh.; KLUSHIN, M.I., kand. tekhn. nauk, dots.; KUZNETSOV, A.P., kand. tekhn. nauk, dots.; KURAKIN, A.V., inzh.; LATYSHEV, V.N., inzh.; OL'KHOVSKIY, V.N., inzh.; ORLOV, B.M., kand. tekhn. nauk, dots.; OSHER, R.N., inzh.; PODGORKOV, V.V., inzh.; SIL'VESTROV, V.D., kand. tekhm. nauk [deceased]; TIKHONOV, V.M., inzh.; TROITSKAYA, D.N., inzh.; KHRUL'KOV, V.A., inzh.; LESNICHENKO, I.I., red. izd-va; SOKOLOVA, T.F., tekhn. red.; GORDEYEVA, L.P., tekhn. red.

[Lubricating and cooling fluids and their use in cutting metals]
Smazochno-okhlazhdaiushchie zhidkosti pri rezanii metallov i
tekhnika ikh primeneniia. Moskva, Gos. nauchno-tekhn. izd-vo
mashinostroit. lit-ry, 1961. 291 p. (MIRA 15:1)
(Metalworking lubricants)

USER/Chemistry - Sulfur Compounds
Chemistry - Water Vapor
"Determination of the Organic Sulfur Compounds of
Water Vapor," Ye. A. Karzhavina, 4 pp

"Zavod Labor" Vol XIV, No 1, p 16-24

For determination of large quantities of sulfur compounds, titrated material was mixed with an alkali,
whereupon SO₂ was absorbed. For only traces of sulfur
compounds, a nephelometric method using barium or lead
sulfides was utilized.

KARZHAVINA Ye. N., PIKELNER, L, B, POPOV, A. H., SHARAPOV, E. I. YAZVITSKIY, Y. S., VIZI, I., SHUKOV, G. P., and ZABIYAKIN, G. I.

"Liquid Scintillation Detectors for Registering Neutrons."

Joint Institute for Nuclear Research, Dubna, USSR.

report submitted for the IAFA conf. on Nuclear Electronics, Belgrade, Yugoslavia 15-20 May 1961

。 《大学》中,我们是我们的一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是一个人,我们不会的,我们不会的,我们就是一个人,我们就是我们的一个人,我们就

SOURCE CODE: UR/0413/66/000/009/0046/0046

ACC NRI APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720930002-8'

INVENTORS: Brodovskiy, V. N.; Karzhavov, B. N.

ORG: none

TITLE: Dc to three-phase ac converter. Class 21, No. 181187

SOUNCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 46

TOPIC TAGS: do to ac converter, transistorized circuit

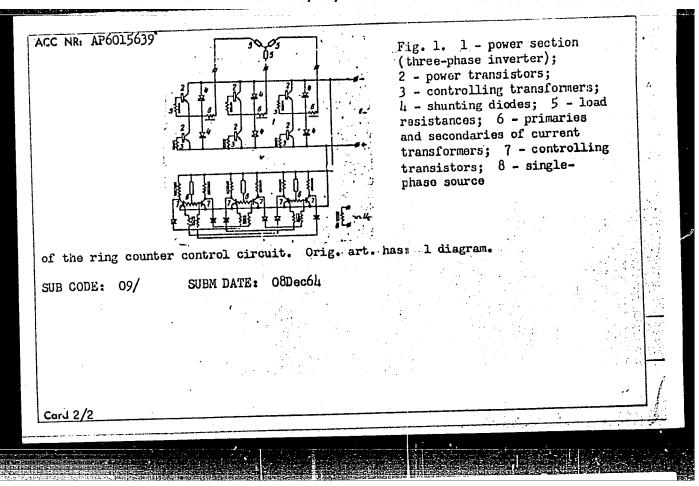
ABSTRACT: This Author Certificate presents a dc to three-phase converter containing a three-phase inverter of transistors operating in the switching mode, transformers with shunting diodes, and a control circuit synchronized by external sources. To improve the power characteristics of the converter with operation into an inductive load by supplying controlling signals, the converter contains current transformers whose primaries are connected in series with the load in the power section (see Fig. 1). The transformer secondaries are connected to the bases of the transistor pairs

Card 1/2

UDC: 621.314.57.025.3

"APPROVED FOR RELEASE: 06/13/2000

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KARZHEV, V.I.; RABINOVICH, B.Ya.; YEVSEYEV, G.D.

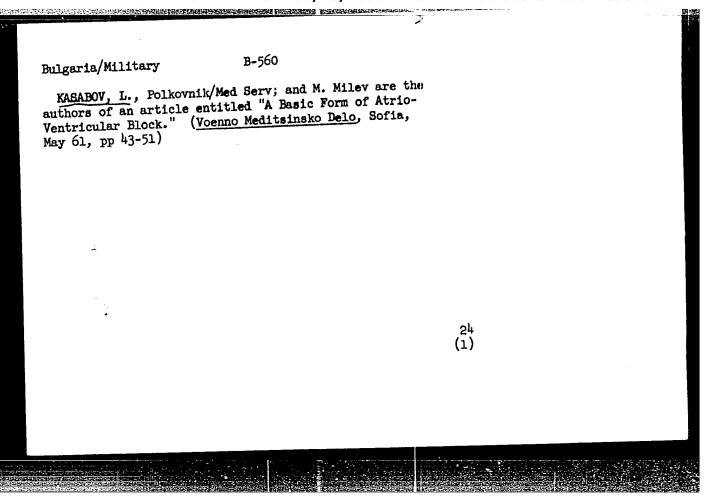
Note of the state of synthetic fatty acids. Khim.i tekh.

(MIRA 14:1)

1. Vesesyuznyy nauchno-issledovatel'skiy institut po pererabotke

nefti i gazov i polucheniyu iskusstvennogo zhidkhgo topliya.

(Acids, Fatty) (Hydrogenation) (Alcohols)

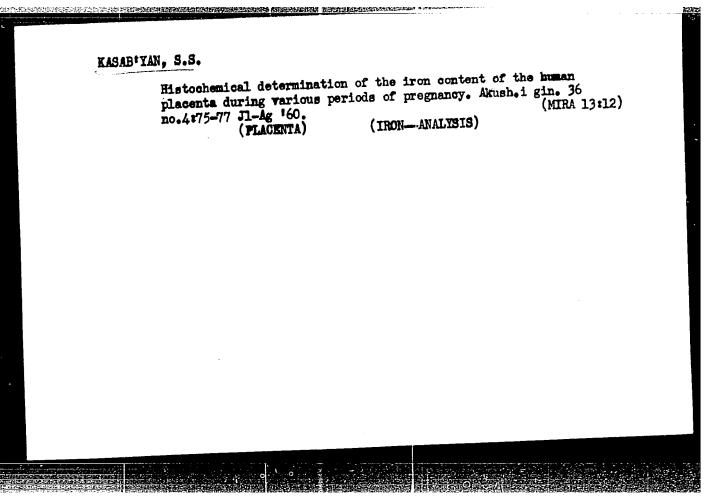


KASAB'YAN, S.S. (Makhachkala)

Histochemical ascorbic acid content of the normal meninges and choroid plexus. Arkh. pat. 22 no. 10:50-53 '60. (MIRA 13:12)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. S.S. Kasabiyan) Dagestanskogo meditsinskogo instituta (dir. - prof. N.T. Nagornyy).

(MENINGES) (CHOROID PLEXUS) (ASCORBIC ACID)



WARZHAY, Ya.I., kandidat meditsinskikh nauk

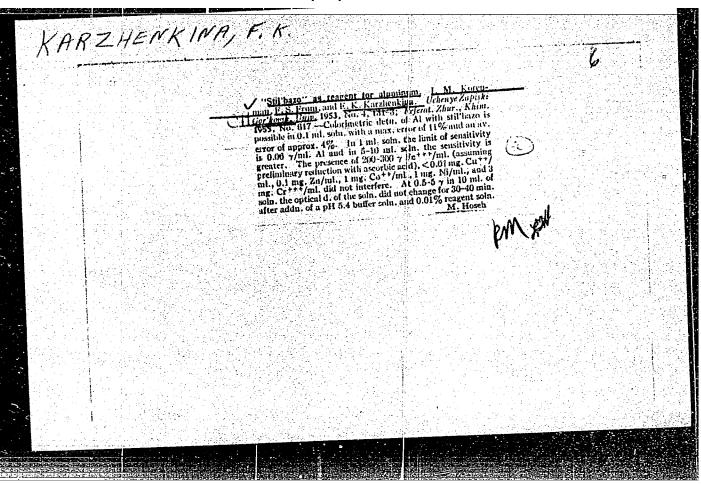
Flamin. Apt.delo 5 ho.3:45 My-Je '56. (MIRA 9:8)

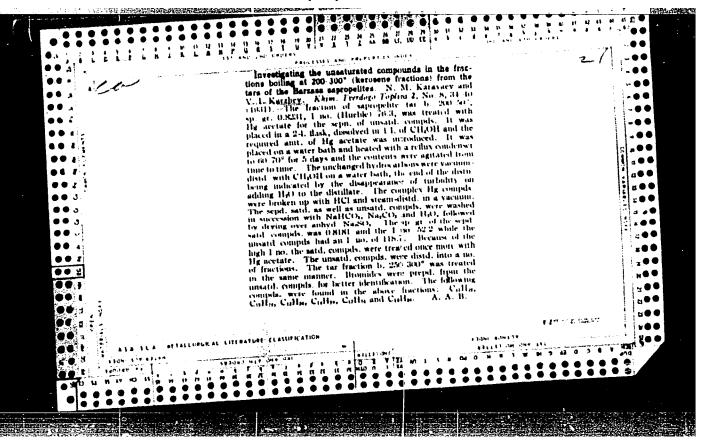
1. Iz laboratorii farmakologii Whar'kovekogo nauchno-iseledovatel'-skogo khimiko-farmatsevticheskogo instituta.
(EVERIASTING FLOWERS) (LIVER--DISMASES)

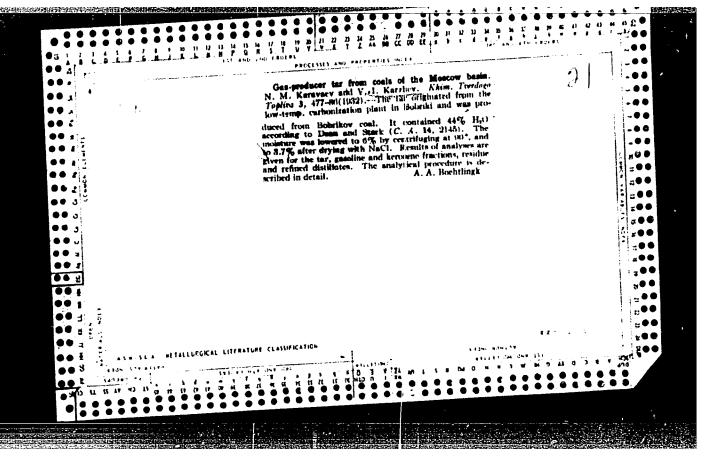
Readers' conferences. Prom.koop. no.4:38 Ap '56. (MLRA 9:8)

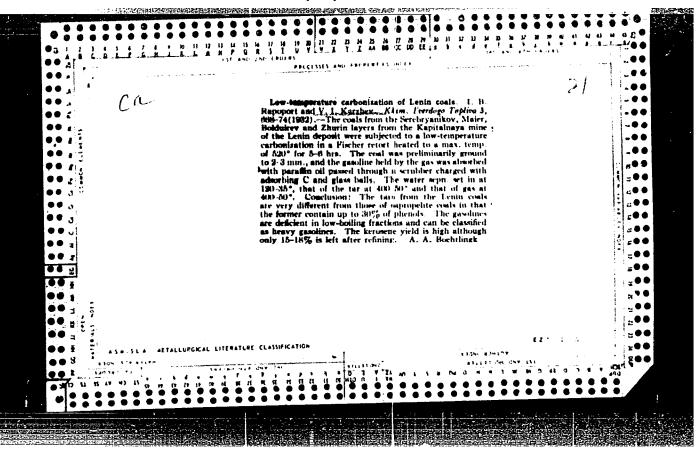
1. Rukovoditel' po literaturnoy rabote Doma kul'tury promkooperatsii goroda Moskvy.

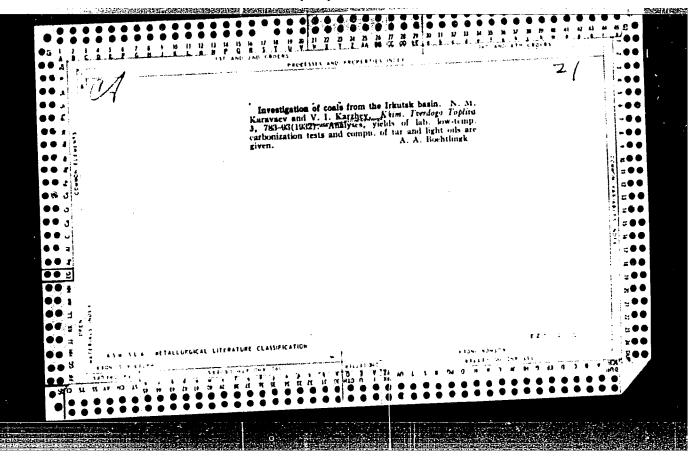
(Moscow--Libraries and readers)

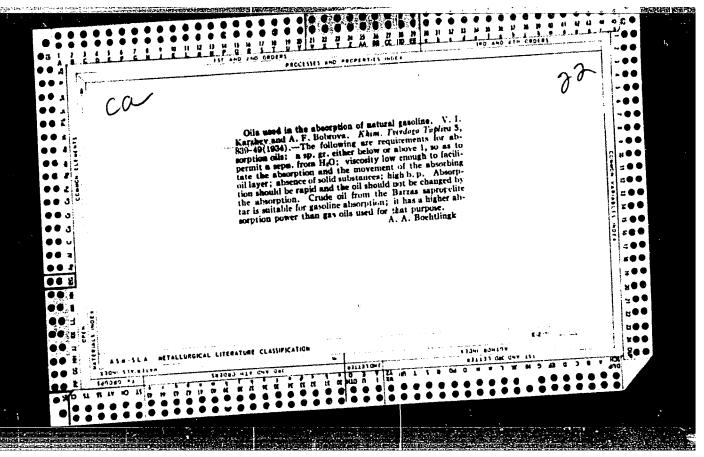


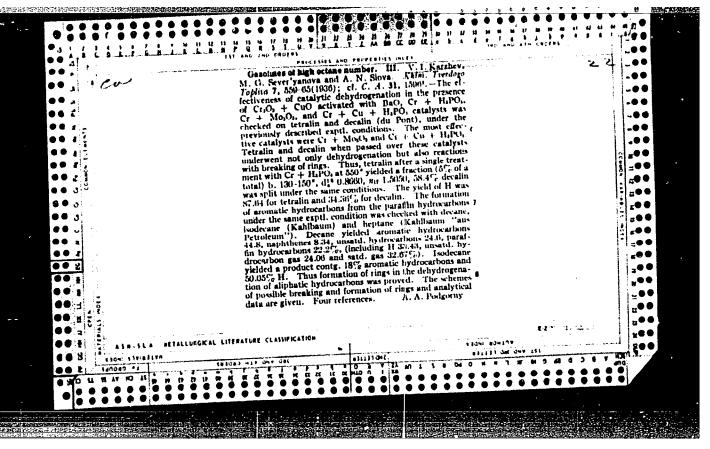


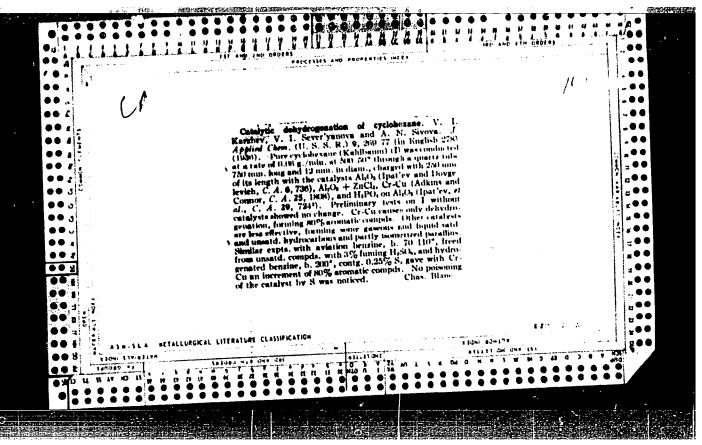


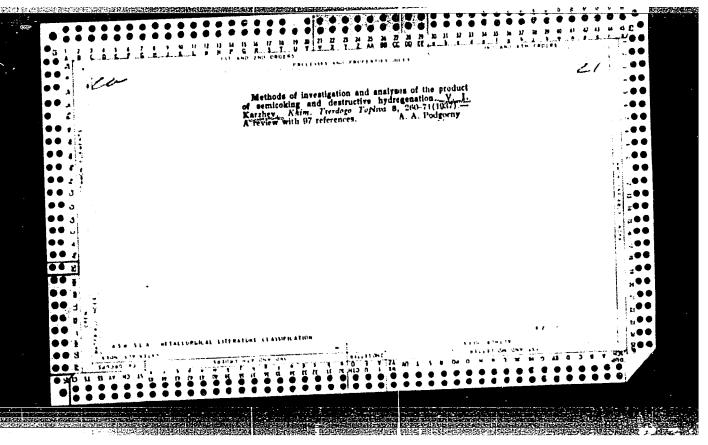


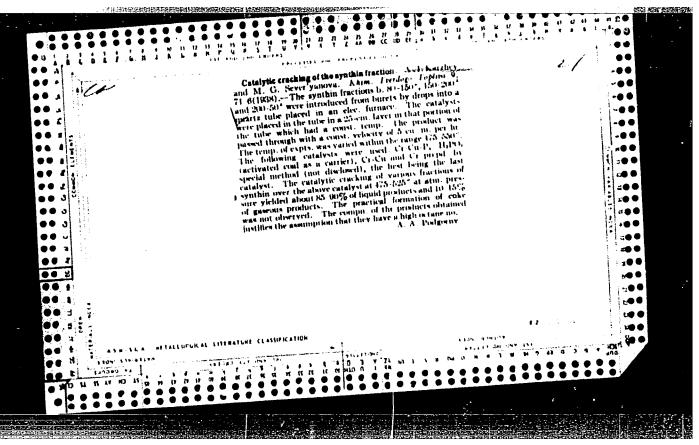


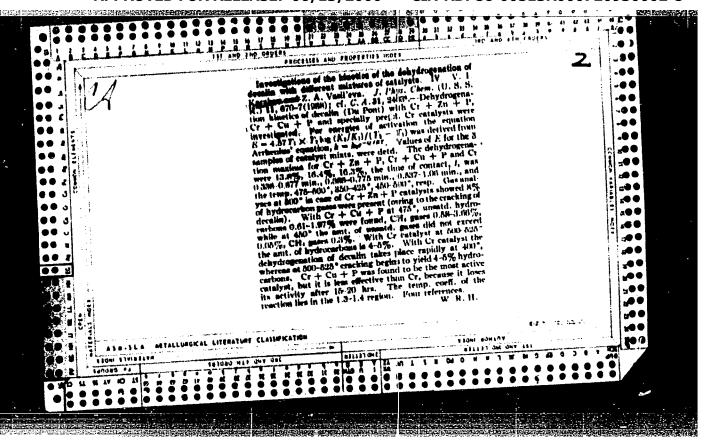


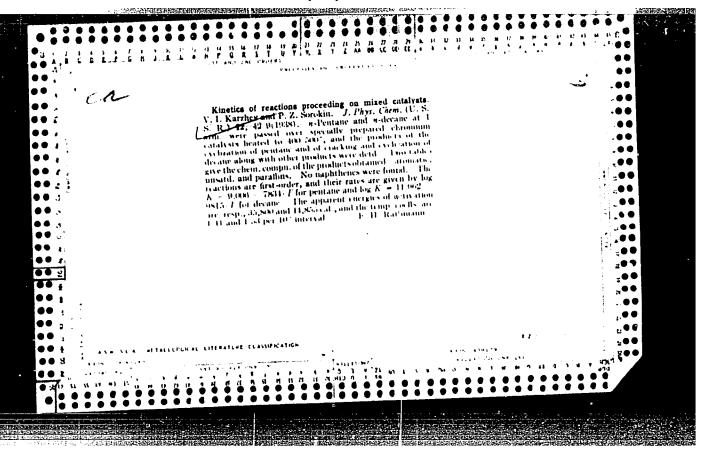


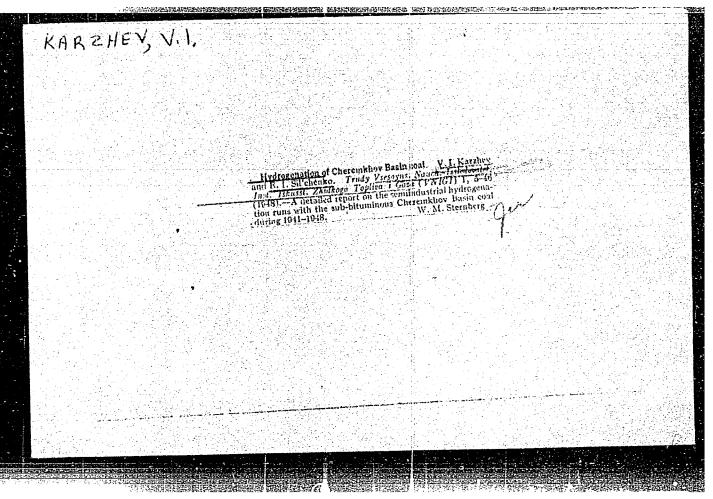






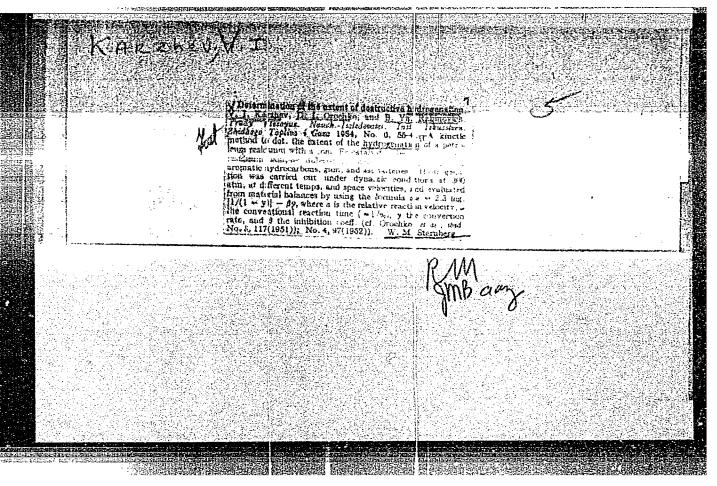


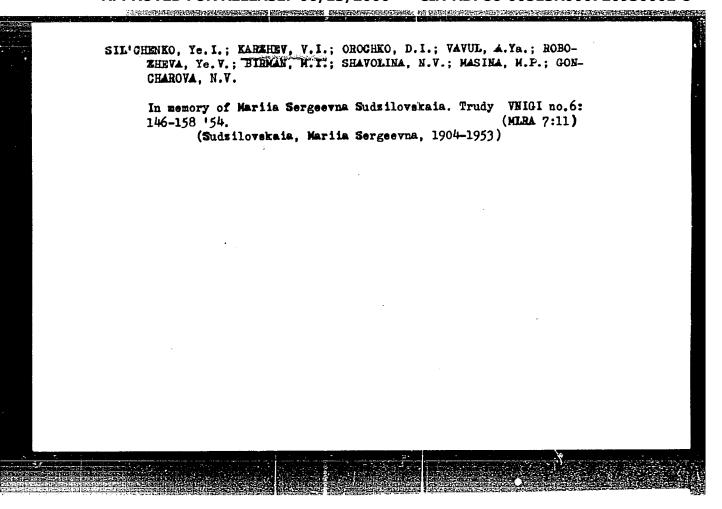




KARZHEV, V. I.; OROCHKO, D. I.; and KHEYFETS, Ye. M.

"Catalytic Aromatization of Casolines", Transactions of the All-Union Scientific Research Institute of Synthetic Liquid Fuel and Gas, Moseow, Gostoptekhizdat, 1950, volume II.





FOKIN, Vladimir Yakovlevich; PHRAIK, Vladimir L'vovich; L'VOVA, L.A.,
redaktor; D'YAKOV, V.G., retsenzent; KARCHEV, V.I., retsenzent;
POLUBOYARINOV, G.N., retsenzent; ROZHINSTI, T.S., retsenzent;
SAPSATENKO, I.I., retsenzent; CHERNYSHEVA, I.G., retsenzent

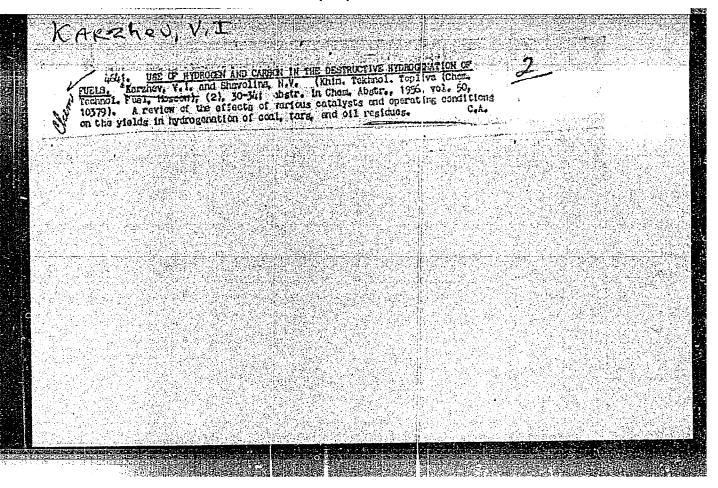
[Equipment of factories producing synthetic liquid fuel; installation, maintenance, and operation] Oborudovanie zavodov iskusstvennogo shidkogo topliva; montazh, remont i ekspluatatsiia. Moskva, Gos.
nauchno-tekhm. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1955. 400 p.
(MIRA 913)

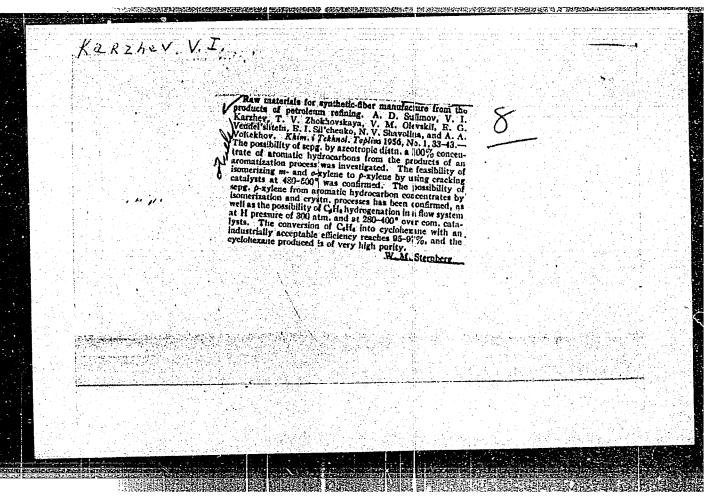
RAPOPORT, Iosif Borisovich, professor, doktor khimicheskikh nauk;
GOYKHRAKH,I.M., redaktor; YRESHOV,P.R., redaktor; KARZHEV,V.I.,
doktor tekhnicheskikh nauk, retsenzent; CROCHKO,D.I., doktor
tekhnicheskikh nauk, retsenzent; TROFIMOV,A.V., tekhnicheskiy
redaktor

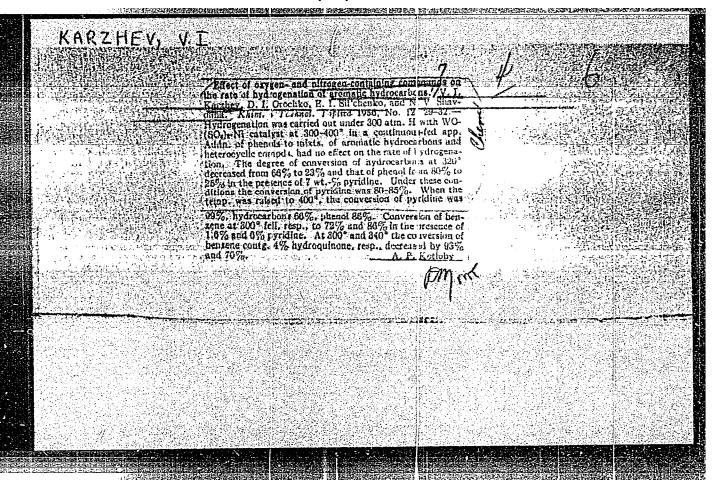
[Synthetic liquid fuel; chemistry and technology] Iskusstvennee
zhidkoe toplivo; khimiia i tekhnologiia. 2-e, perer. i dop. izd.
Moskva, Cos.nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi
lit-ry, 1955. 546 p.

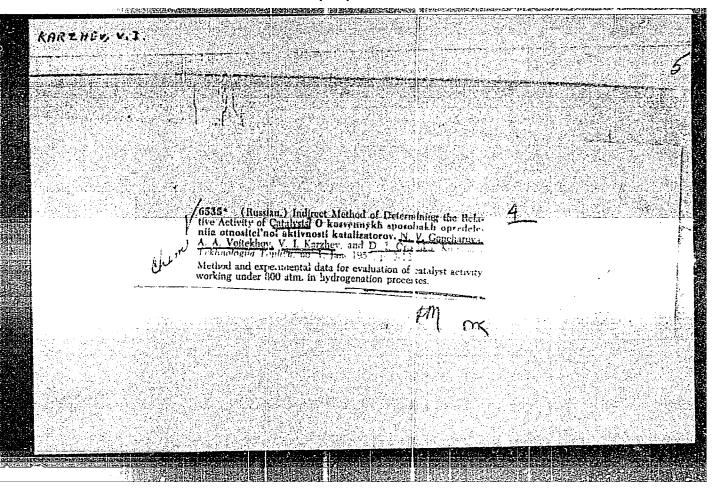
(Liquid fuels)

(MIRA 9:3)









GONCHAROVA, N.V.; VOYTEKHOV, A.A.; KARZHEV, V.K.; OHOCHKO, D.I.

Indirect methods for determining relative activity of catalysts.
Khim. i tekh. topl. i masel no.3:7-14 kr *57. (MURA 10:4)

1. Vsesoyuznyy nauchne-issledovatel skiy institut po pererabotki nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

(Gatalysts)

CIA-RDP86-00513R000720930002-8 "APPROVED FOR RELEASE: 06/13/2000

KARZHEV, V.I.

Karzhev, V. I., Doctor of Technical Sciences 30-8-36/37 AUTHOR:

A Collection of Works Carried out by Siberian Scientists on TITLE:

Catalytic Hydrogenesis (Sbornik issledovaniy sibirskikh

uchenykh po kataliticheskoy gidrogenizatsii).

Vestnik Akademii Nauk SSSR, 1957, Vol. 27, Nr 8, pp. 121-121 PERIODICAL:

(USSR)

The publication of this book shows what great work has been done ABSTRACT:

by the relatively young Institute for Chemistry of the West-Siberian branch. The work contains a great amount of experimental material, and much valuable research work has been carried out, the practical results of which have already been exploited for the benefit of the industry. Not less interest is aroused by a work by I. V. Kalechits and F. G. Salimgareyeva (results obtained concerning the destructive hydrogenization of the individual highest phenols). The book, however, also contains some articles which detract from the otherwise high level of the book, as e.g. that on "The Use of Steady Catalyzers for the Destructive Hydrogenization of High-Molecular Raw Material" and some others. They deal with no new results and often repeat what has already been known

for a long time. In conclusion, the author expresses the opinion

Card 1/2

A Collection of Works Carried out by Siberian Scientists 30-8-36/37 on Catalytic Hydrogenesis.

that such works belong rather to the series "Success Achieved in the Field of Chemistry" (Uspekhi Khimii) but should not form part of a work on the newest research results obtained by the branch

AVAILABLE: Library of Congress

Card 2/2

SOV/65-59-12-2/16

Karzhev, V. I; Kasatkin, D. F. and Orochko, D. I. AUTHORS:

TITLE:

Hydrogenation of Heavy Petroleum Residues and Secondary Distillates (Gidrogenizatsiya tyazhelykh neftyanykh ostatkov i distillyatov vtorichnogo proiskhozhdeniya)

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr 12, pp 3 - 9, (USSR)

ABSTRACT: Methods for processing petroleum are based on the thermal and catalytic conversions of hydrocarbons. During this

process, however, the yield of cracking residues and goudrons as well as distillates with lower hydrogen content, and of inferior quality gases, is increased. This is particularly undesirable during the processing of

sulphur-containing petroleums. Disadvantages of destructive hydrogenation processes are pointed out. Comparative rates of liquid phase hydrogenation of various types of raw material at a pressure of 300 atms are given

in Table 1. During the hydrogenation of the cracking residue, the reaction volume is decreased to 41 - 66%, (in comparison to petroleum residues obtained by direct distillation) and to 57 - 80% when heavy fractions of

coke distillates are hydrogenated. Technical and econo-

Card 1/5 mical aspects of hydrogenation processing can be improved

SOV/65-58-12-2/16

Hydrogenation of Heavy Petroleum Residues and Secondary Distillates

by the modification of the liquid phase stage, and by using it in conjunction with other methods such as catalytic and thermal cracking processes. A further reduction of the reaction volume was achieved by using a onestage liquid phase hydrogenation, and by using suspended and stationary catalysts. The output of the liquid phase hydrogenation plants was increased to 55 - 60%. The hydrogenation of unsaturated hydrocarbons, oxygen- nitrogen- and sulphur-containing compounds and of resinous substances, as well as the destructive hydrogenation with simultaneous cleavage of the molecule, can proceed at low pressures during the destructive hydrogenation process. Strongly aromaticised kerosine-gas-oil and high boiling distillates, with a high sulphur content, are obtained when using the aforementioned processes. Even more highly aromaticised products are obtained by selective extraction of oil and gas-oil fractions. At present, these products are used as additives for petroleum residues used for heating, for diesel fuels etc. which leads to a decreased yield of valuable notor fuels. These products can be converted to motor fuels by lowering their content

Card 2/5

Hydrogenation of Heavy Petroleum Residues and Secondary Distillates

of aromatic sulphur compounds and unsaturated hydrocarbons. Low boiling and slightly aromatisised distillates with an increased sulphur content can be converted comparatively easily to fuels by catalytic hydropurification at pressures varying between 20 - 50 atms. Results of the hydrogenation of characteristic fractions, obtained during the catalytic cracking of heavy distillates, and of extracts obtained during the selective purification of oil fractions over a stationary very active catalyst, are discussed (Table 2). Satisfactory results were obtained with tungsten- or tungsten-nickel sulphide catalysts at 200 - 300 atms pressure and at a temperature of 320 - 400°C. Hydrogenates and their fractions, obtained under these conditions, differ in their chemical composition from the starting material as they contain large quantities of naphthenic hydrocaroon (60 - 70%), small quantities of aromatic compounds (from 6 to 10 - 12%), unsaturated hydrocarbons (1 - 2%) and only about 0.1% sulphur. Fractions boiling up to 300 - 350°C have comparatively high density, low freezing temperature and high calorific value. Fractions boiling above this temperature can be used as starting material for catalytic cracking and for

Card 3/5

SOV/65-58-12-2/16 Hydrogenation of Heavy Petroleum Residues and Secondary Distillates

the preparation of lubricants with a high viscosity index (Table 3). The consumption of hydrogen during the hydrogenation of heavy petroleum residues and of distillates constitutes 3.0 - 4.0%/weight of the starting material. The hydrogenates can be used for diesel and reactive fuels. Properties of the fractions boiling between 200 and 300°C, obtained from hydrogenates during the processing of a highly aromatic extract, are given. Both fractions have the same composition, but different freezing temperatures, which is explained by the different structure of the compositions. Products with analagous properties were also obtained from other aromatic raw materials (extracts of aromatic hydrocarbons obtained during the catalytic cracking of gas-oil; kerosine-gas-oil fractions obtained by direct distillation and fractions obtained during pyrolysis). The qualities of the fractions can be improved by a slight variation in the process conditions; for instance during the hydrogenation of the aforementioned raw materials over a tungsten or tungsten-nickel catalyst

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SOV/65-58-12-2/16

Hydrogenation of Heavy Petroleum Residues and Secondary Distillates

gasolines with low anti-detonating properties are obtained. Their octane number does not exceed 52 - 56 units. This can be increased to 84 by using a specially treated catacan be increased to 84 by using a specially treated catalyst and increasing the process temperature. During this process, high pressures can be used more effectively when using active stationary catalyst than when using suspended catalyst. The degree of conversion of high boiling fractions into light products reaches 65 - 85% when increasing the rate of supplying the raw material, and is two to three times higher than during the liquid-phase hydrogenation with an iron catalyst. There are 4 Tables and 8 Soviet References. and 8 Soviet References.

ASSOCIATION: VNII NP

CARD 5/5

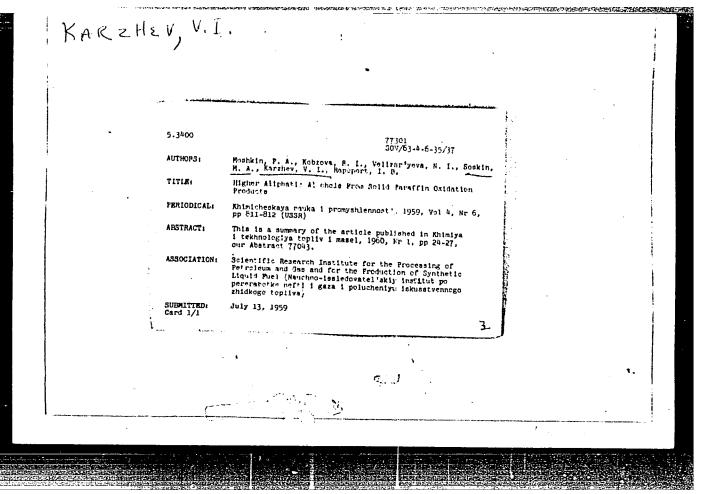
GONCHAROVA, N.V.; KRIVOZUBOVA, N.V.; YEVSEYEV, G.D.; VOYTEKHOV, A.A.; KASATKIN, D.F.; KARZHEV, V.I.

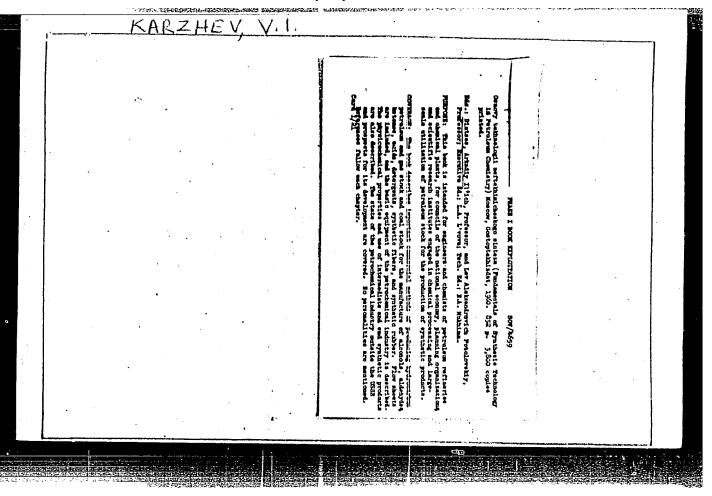
Hydrogenation for obtaining products with a high content aromatic hydrocarbons. Khim. i tekh. topl. i masel 3 no.12:15-21 D '58.

(MIRA 11:12)

l. Vsesoyuznyy nauchno-issledovatel skiy institut neftyanoy promyshlennosti.

(Petroleum products) (Hydrogenation)





3000

Fundamentals of Synthesis Technology (Cont.) SOV/4659
ch. XIII. Destructive Hydrogenation of	f Coal and Resins as a Source of the Organic Synthesis Industry
[V.I. Karzhey]	833
1. Chemical conversions in the	hydrogenation process 834
Composition of hydrogenation separation	products and methods of their 838
AVAIIABLE: Library of Congress	
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	JA/rn/gmp 1-19-61
Card 21/21	1-19-01

S/065/61/000/001/003/008 E030/E212

AUTHORS: Karzhev. V. I., Rabinovich, B. Ya. and Yevseyev, G. D.

TITLE: Hydrogenation of the Ethers of Synthetic Fatty Acids

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1961, No. 1,

pp. 15-19

TEXT: The hydrogenation of the ethers of fatty acids in the range C₁₀ - C₂₀ has been investigated, as a source of providing new surface-active agents. The methyl and butyl ethers were studied, and the acids themselves had been synthesized by oxidation from the paraffins, and then subsequently etherified. The efficiency of general conversion of the ethers was based on saponification values, and the efficiency of conversion into alcohols, on the hydroxyl numbers. The mean molecular weight of the starting material was 270, its acid value 0.4, saponification value 204, and the hydroxyl value 15. A commercial copper-chrome value 204, and the hydroxyl value 15. A commercial copper-chrome catalyst was used (15 gm). Hydrogenation took place around 250°C, under 200 atmospheres of hydrogen, and space velocities around 0.25-0.3 per hour. The reaction temperature coefficient is about 1.18 in the 230-250° temperature interval, but about 1.14 in the

Card 1/2

S/065/61/000/001/003/008 E030/E212

Hydrogenation of the Ethers of Synthetic Fatty Acids

250-270° temperature interval. However the degree of conversion falls a few percent in raising the temperature from the 250°C optimum to 270°C, because of secondary reactions. The degree of conversion is quite insensitive to alterations in the pressure of hydrogen between 200 and 300 atmospheres. The optimum degrees of general conversion were around 98.5% and for conversion into alcohols were around 97.8%. There are 3 tables and 6 Soviet references.

ASSOCIATION: VNII NP

Card 2/2

KARZHEV, V.I.; KASATKIN, D.F.; BULEKOVA, Ye.A.

Uses of quinoline from the by-product coke industry. Koks i khim. no. 5:50-52 '61. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

(Quinoline)

Alkylation of is 201-203 Mr-Ap 16	Alkylation of isocctane with olefins. Neftekhimiia 1 nc.2: 201-203 Mr-Ap *61. (MIRA 15:2) 1. Vsesoyuznyy nauchno-issledovatel skiy institut neftyanoy promyshlennosti. (Alkylation) (Octane) (Olefins)		
1. Vsesoyuznyy			
		i	

15.4100 1583

33586 S/204/61/001/005/004/008 E075/E484

// 9/00 AUTHORS:

Zherdeva, L.G., Karzhev, V.I., Sil chenko, Ye.I., Detusheva, E.P., Robozheva, Ye.V., Sidlyaronck, F.G.,

Lebedeva, N.M.

TITLE:

Isomerization of hydrocarbons from petroleum paraffin

waxes

PERIODICAL: Neftekhimiya, v.l, no.5, 1961, 639-647

TEXT: Results are given of investigation into the isomerization of solid paraffin waxes separated from high-sulphur crudes in refineries. 98.6% of the waxes boiled between 350 and 450°C. Their melting point was 51°C, sulphur content 0.03% and oil content 2%. The waxes were typical commercial waxes with relatively high oil content. Isomerization was conducted in a laboratory flow apparatus under hydrogen pressure. Molten wax at 100°C mixed with hydrogen was fed into the reactor filled with 100 ml of catalyst. The reactor temperature ranged from 390 to 430°C. Industrial platinum catalyst was used. In some of the experiments, 3% wt benzene was added to the wax to elucidate the influence of aromatic hydrocarbons on the processes of chain Card 1702

33586 5/204/61/001/005/004/008 E075/E484

Isomerization of hydrocarbons

Table 1 gives optimum reaction rupture and isomerization. conditions together with some properties of the products. presence in the products of isoparaffins is shown by the fact that a considerable lowering of their solidification point occurs after Three fractions of the products were treatment with urea. selectively dewaxed and clay-treated. Yields of the dewaxed oils varied from 82 to 75%, for the fractions boiling between 300 and 350°C, to 38% for the fractions boiling between 400 and 450°C. Solidification temperature for all dewaxed oils varied between -30 and -34°C. The wax separated during dewaxing contained about 90% urea adductable material and therefore is suitable for adding to the feedstock. Isomerization of war of m.pt. 58 to 60°C gives large quantities of paraffins boiling between 350 to 450°C, which have a special interest for oxidation to fatty alcohols and acids. Oils solidifying below -40°C were produced by a two-step dewaxing, the second step consisting of urea treatment. The oils have relatively low viscosities (3.5 to 10.1 cs at 50°C and 2.5 to 3.4 cs at 100°C) and high viscosity indices (115 to 142). Viscositygravity constants of the oils are below 0.77, densities lower than Card 2/#

33586 \$/204/61/001/005/004/008 E075/E484

Isomerization of hydrocarbons ...

0.83 and refractive index n_D^{20} less than 1.4660. It is concluded that the oils consist of highly isomerized paraffinic hydrocarbons. The content of aromatic hydrocarbons in the oils varies from 8 to It is thought that they are mainly homologues of The oils obtained in the experiments in the presence naphthalene. of benzene have almost no resins, whereas the other oils contain 0.5 to 0.7% resins and are somewhat darker. The aromatic hydrocarbons improve oxidation stability of the oils as measured by sludge formation and acid value after testing by method VTI, More viscous oils (SAE 10) were obtained by adding 2% Acryloid 150 and polymethacrylate "D" (obtained in VNII NP) to the oils. viscosity index is thus increased to 182-187. It is concluded that the isomerization constitutes a possible commercial process for the production of lubricating oils with high viscosity indices. There are 10 tables and 17 references: 5 Soviet-bloc and 12 non-Soviet-bloc. The four most recent references to English language publications read as follows: Ref.8: P. Schenk, A.B.H. Varvorn, H.I. Waterman, A.B.R. Weber. J. Inst. Petrol., v.42, 1956, 205; Ref.9; E.L.Breimer, H.I.Waterman, A.B.R.Weber. Card 3/6 (

33586 5/204/61/001/005/004/008 E075/E484

Isomerization of hydrocarbons ...

J. Inst. Petrol., v.43, 1957, 407; Ref.10; Brit. Pat. J. 66027, 28 March 1955; Ref.11; I.W.Gibson, G.M.Good, G.Holzman. Industr. and Engng. Chem., v.37, no.16, 1959, 16.

ASSOCIATION:

pererabotke nefti, gaza i polucheniyu iskusstvennogo zhidkogo topliva VNII NP, g. Moskva (All Union Scientific Research Institute for Oil and Gas Refining and the Production of Synthetic

Vsesoyuznyy nauchno-issledovateliskiy institut po

Liquid Fuel VNII NP, Moscow)

SUBMITTED:

July 28, 1961

Card 4/9 4

SANATURE MERIODEN MEDICAL PROPERTY BEST SAN

VASYUNINA, N.A.; BALANDIN, A.A.; KAPZHEV, V.I.; RABINOVICH, B.Ya.; CHEPIGO, S.V.; GRIGORYAN, Ye.S.; SLUMSKIN, R.L.

Production of glycerol and glycole by hydrogenolysis of xylitol. Khim.prom. no.2:82-86 F '62. (MIRA 15:2)

1. Institut organicheskoy khimii AN SSSR, Vsesoyuznyy nauchno-iseledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva, i MONIIGS. (Glycols)

(Xylitol)

KARZHEV, V.I.; RABINOVICH, B.Ya.; YEVSEYEV, G.D.

Catalytic reduction of 2-hydroxyadipic aldehyde to 1,2,6-hexanetriol.
Neftekhimia 3 no.2:267-270 Mr-Ap '63. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti.

(Adipaldehyde) (Hexanetriol) (Reduction, Chemical)

KARZHEV, V.I.; SIL'CHENKO, Ye.I.; GONCHAROVA, N.V.; SVIRINA, V.P.; GOYKHMAN, G.L.

Activity of phosphoric acid catalyst pellets. Khim.i tekh,topl.i masel 8 no.8:19-23 Ag '63. (MIRA 16:9)

l. Vsesoyuznyy nauchno-issledovatel skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

(Petroleum—Refining) (Catalysis) (Phosphoric acid)

ACCESSION NR: AP4039763

\$/0065/64/000/006/0024/0028

AUTHOR: Karzhev, V. I.; Sil'chenko, Ye. I.; Goncharova, N. V.; Svirina, V. P.; Lebedeva, A. M.

TITLE: Separation of aromatic hydrocarbons by means of complexes

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1964, 24-28

TOPIC TAGS: xylene, p-xylene, m-xylene, antimony(III) chloride, p-xylene separation

ABSTRACT: A study has been made of the separation of p-xylene by means of complex formation with SbCl₃ from a mixture of C₈ aromatic hydrocarbons produced in the aromatization of gasoline fractions. The principal purpose was to determine the maximum percentage recovery of p-xylene obtainable. The purity of the isolated p-xylene was also studied. Xylenes, synthetic mixtures of pure p- and m-xylene, and the 136—140C xylene fraction produced at the Novokuybyshevkiy Refinery were used. SbCl₃ was dissolved in the

Card 1/3

ACCESSION NR: AP4039763

CAST TELESCRIPTION OF THE BUILDINGS IN THE STATE OF THE S

hydrocarbon mixture at 60—70°C. The solution was cooled to a predetermined temperature, and a SbCl₃·C₆ll₄(Cll₃)₂ crystal seed (mp, 56°C) was added. After standing for one hour, the precipitated crystalline complex was filtered off and thermally decomposed at 136—144°C. The hydrocarbons were isolated by distillation. Optimum conditions for various stated initial compositions are given in tables. It was concluded that separation of highly concentrated p-xylene is best conducted in a continuous equipment in two or three stages, depending on the starting-material composition, the complex being decomposed between the stages. In this case, 94—96°C p-xylene is produced after the last stage. The SbCl₃ can be repeatedly regenerated. The mother liquor can be returned to the first stage and m-xylene can be separated from it by complex formation with SbCl₃ under different conditions. This research was done at the All-Union Scientific Research Institute of the Petroleum Industry. Crig. art. has: 5 tables and 1 figure.

Card 2/3

ACCESSION NR: AP4039763
ASSOCIATION: none
SUBMITTED: 00 DATE ACQ: 24Jun64 ENCL: 00
SUB CODE: CC NO REF SOV: 003 OTHER: 003

Card 3/3

KARZHEV, V.I.; SILICHENKO, Ye.I.; ROBOZHEVA, Ye.V.; LEBEDEVA, A.M.

Transformations of high-boiling paraffin hydrocarbons under the conditions of hydrocracking. Khim. i tekh.topl. i masel 10 no.11:4-9 N .65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

GOLOTA, Ya.A.; CHUPUROV, K.P.; PRUSS, C.G.; KARYSHEVA, A.F.; GOLOVAN', R.I.

Characteristics of experimental leptis; routs in swire. Veterina tia
(A. no.8229-33 Ag '84. (MIRA 18.4))

1. Ukrainskiy nauchno-issledovateliskiy institut zemledeliya.

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KHRZHIZEK, A.

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AUTHORS:

Karzhizek, A. and Shimechek, V., Senior Assistants

TITLE:

The Teaching of Foreign Languages at the Prague Institute of Transports (Prepodavaniye inostrannykh yazykov v Prazhskom

transportnom institute)

PERIODICAL:

Vestnik Vysshey Shkoly, 1957, # 10, pp 94-95 (USSR)

ABSTRACT:

The Prague Engineering Institute of RR Transport has four faculties, - Building, Mechanical, Exploitation, Electrical

Engineering - and correspondence courses.

The authors point out that knowledge of foreign languages is very important to future engineers. A compulsory course

of Russian was included into the program.

The chair of languages at the institute has three senior assistants, elected for three years. They may remain for nine years at the chair in the capacity of assistants. During that period they must reach the grade of a dotsent. Experienced workers who do not obtain a grade may be trans-

ferred to the category of lecturer-specialists.

Requirements in the study of Russian are very high. The study of other foreign languages is not yet compulsory, but is planned for the future, i.e. the introduction of German

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The Teaching of Foreign Languages at the Prague Institute of Transports

is foreseen at the faculty of exploitation. There are, however, no fixed plans on this subject. Some Soviet text-books are utilized in the courses. The chair conducts scientific research work and collaborates with other chairs, by translating material from foreign periodicals. Professor I.G. Tikhomirov and professor V.N. Stogov from USSR gave lectures during one semester. There was also a visit by a Chinese scientist.

Collaboration was established with the Dresden Institute of Transports, the members of the chair acting as interpreters.

ASSOCIATION: The Prague Engineering Institute of RR Transport (Institut

inzhenerov zheleznodorozhnogo transporta v Prage)

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